Coating Plates with Matrigel

AUG 12, 2021

OPEN ACCESS

DOI:
dx.doi.org/10.17504/protocols.io.br85m9y6

Protocol Citation: Jiuchun Zhang, Harper JW 2021. Coating plates with Matrigel for ES/iPS culture.
protocols.io
<https://dx.doi.org/10.17504/protocols.io.br85m9y6>

License: This is an open access protocol distributed under the terms of the [Creative Commons Attribution License](#), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Protocol status: Working
We use this protocol and it's working

Created: Feb 09, 2021

Last Modified: Dec 26, 2022

PROTOCOL integer ID:
47101

Keywords: coating, matrigel, iPs, ES culture, ASAPCRN

Coating plates with Matrigel for ES/iPS culture

Jiuchun Zhang¹, Harper JW¹

¹Harvard Medical School

Felix Kraus

ABSTRACT

This protocol is about coating plates with matrigel.

ATTACHMENTS

[CoatingplateswithMatrigel.pdf](#)

MATERIALS

Required Materials

- 1X PBS
- culture dishes
- Matrigel

SAFETY WARNINGS

For hazard information and safety warnings, please refer to the SDS (Safety Data Sheet).

- 1 Chill [M] 1 X PBS 🌡️ On ice .

Note

Skip this step if you have PBS in the fridge already.

- 2 Take culture dishes you want to coat out of their package and place them inside a tissue culture hood.

- 3 Thaw desired number of Matrigel aliquots either 🌡️ On ice or at 🌡️ Room temperature .

Note

Keep in mind that matrigel will solidify at room temperature. So if you thaw matrigel at room temp, you want to make sure to proceed to the next step before the gel is warmed up to room temperature. You can proceed to the next step even if there is still a little some frozen matrigel in the tube. PBS should thaw them quite quickly.

- 4 Resuspend matrigel with chilled PBS. You want to use 🧴 25 mL PBS per 🧴 2 mg matrigel .

- 5 Make sure the matrigel is well mixed in the PBS. Then aliquot proper volume into each culture dish. You will need 🧴 6 mL per 10 cm dish, 🧴 1 mL per well of a 6 well plate, 🧴 0.5 mL per well of a 12 well plate.
Swirl plate to coat all the surface.

- 6 These plates are ready to use after ⌚ 01:00:00 at 🌡️ Room temperature . Depending on the storage space situation. You can keep these plates in a 🌡️ 37 °C tissue culture incubator, somewhere clean at 🌡️ Room temperature or in the fridge. As long as they are kept sterile and the solution is not dried out, they are good for a couple months. Dried out plates have to be either discarded or re-coated.

1h

7

After 01:00:00, add 2 mL fresh 1xPBS on top to avoid the wells from drying out.

1h